Wireless For HDMI™ UWB

EXT-WHDMI

User Manual

www.gefen.com

ASKING FOR ASSISTANCE

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Notice

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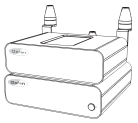
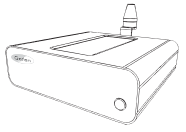


Wireless for HDMI Product Placement Guide

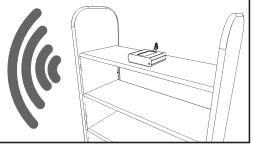
Optimizing the placement of your Wireless for HDMI product can increase performance and ensure that you are getting the best possible range and signal quality.

1 It is important to consider the placement of the Wireless for HDMI sender to achieve the best possible performance. Receiver placement is not as crucial.



2 Placing the sender on a low shelf (under 3 feet) can cause interruptions in the signal when an object or person passes between the sender and receiver.

3 Placing the unit in a higher position (over 5 feet) will ensure a clear path for the signal to be transmitted to the receiver.



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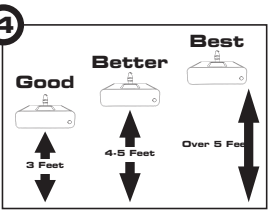
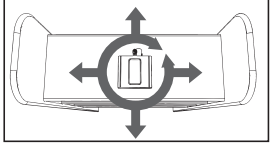
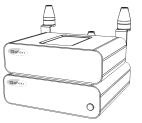


5 The signal can be fine tuned by slightly adjusting the position of the sender and receiver units.



Important Note:
The recommended maximum range of the Wireless for HDMI is 30 feet (10 meters) with a line of sight path. However, as with all wireless type products, actual performance may vary depending on the user's environment. The Wireless for HDMI may be affected by interference from other wireless products and/or signal attenuation (weakening) due to the proximity of certain objects/materials such as walls, floors, doors, and other construction materials that contain metal. Large home appliances may also affect performance such as refrigerators, washers and dryers.



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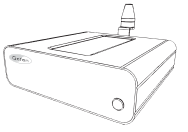

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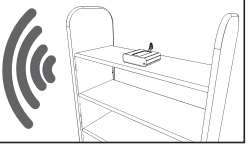

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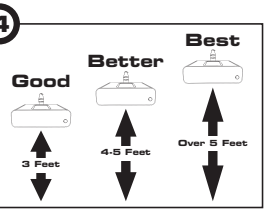

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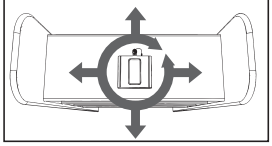

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INTRODUCTION

Congratulations on your purchase of the Wireless for HDMI UWB. Your complete satisfaction is very important to us.

Gefen

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to implement and simple to operate.

The Gefen Wireless for HDMI UWB

The Gefen Wireless for HDMI UWB is the perfect solution for sending up to three High Definition Video sources to any one location without the hassle of wires. Up to 30 feet line of sight extension (less if going through a wall to an adjacent room) is achievable with supported resolutions of up to 1080p30. This is a perfect solution in scenarios where traditional cabling cannot be applied. The plug and play installation makes it simpler than ever to extend HDMI to another room or to a ceiling projector in a matter of minutes, all without ever having to get on a ladder or drill through walls and ceilings. The Gefen Wireless for HDMI UWB uses Ultra Wide Band technology from T-Zero which operates in the 3.1-4.8Ghz band. UWB will not interfere with your other concurrently running wi-fi wireless products.

The Gefen Wireless for HDMI doubles as a High Definition video switcher. There are three High Definition video inputs (2 HDMI and 1 Component) that are selectable at the sending location. Three high definition sources, one wireless solution.

If the wireless receiver is located in an adjacent room, the IR repeater feature will relay remote control commands from your location back to the source. Once the IR blaster has been properly placed on the source device(s), you simply point your existing remote control at the receiver which will send the remote commands back to your device(s) for a truly seamless high definition experience.

How It Works

The Gefen Wireless for HDMI UWB uses a simple send and receive methodology. There is one sending unit that is paired to one receiving unit at a remote location. All communication sent between these units are done using wireless signals. Connect up to 2 HDMI and 1 Component video source to the transmitting unit and connect the display, with optional analog audio, to the receiving unit. Once the included power supplies are connected and the display and sources are turned on, you will be able to enjoy High Definition quality video at your display location.

To switch between the available inputs, press the input selector switch located on the sender's front panel. Alternatively, you can use the Auto Switching feature that will monitor both HDMI ports and switch to inputs when it detects that either HDMI source's power has been turned on. When that HDMI device is tuned off, the Gefen Wireless for HDMI UWB will automatically switch back to last viewed source. To switch to the component input, simply turn off both of the connected HDMI sources or use the input selector switch on the sender unit.

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE WIRELESS FOR HDMI UWB

- This equipment may only be operated indoors. Operation outdoors is in violation of 47 U.S.C.301 and could subject the operator to serious legal penalties. Operation is subject to the following two conditions:

  1. This device may not cause harmful interference.

  2. This device must accept any interference received including interference that may cause undesired operation.

- Wireless for HDMI UWB has a maximum range of 30 feet when line of sight is available. Distance may be limited or un-passable through certain types of walls.

- Operating temperature is 0° to 70° Celsius

- HDMI 1.2a Compliant (HDMI 1.3 compatible)

- HDCP Compliant

- ROHS Compliant

- Supported Resolutions

  640 x 480

  480i/p

  576i/p

  720p

  1080i (60)

  1080p (24, 25, and 30)

- Supported Audio Formats:

  HDMI Audio

  - 2 Channel PCM (32KHz, 44.1KHz, and 48KHz)
  - Compressed 2 Channel and Multi-Channel bit-stream (e.g. Dolby Digital & DTS)

  Analog Audio

  - 2 Channel LPCM (32KHz, 44.1KHz, and 48KHz)

- Supported IR Formats (36KHz to 40KHz Only):

  RC-5

  RC-6

  REC-80

FEATURES

Features

- Real-time, visually lossless HD video compression
- Two HDMI inputs and one Component Video / Analog Audio input
- Fully HDMI and HDCP compliant
- Supports HDMI 1.3 Lip Sync features for source devices
- IR Blaster and IR Receiver jacks
- Input Selector Switch
- 2-ch Audio and PCM @ 32KHz, 44.1KHz, 48KHz supported as well as multichannel compressed 5.1 audio

Package Includes

(1) Wireless for HDMI UWB Sender Unit
(1) Wireless for HDMI UWB Receiver Unit
(1) High Speed HDMI Locking Cable 6 ft (M-M)
(2) 5V DC / 2.5A Power Supplies
(1) User's Manual

SENDER PANEL LAYOUT

Front Panel

Back Panel

SENDER PANEL DESCRIPTIONS

1 Power LED Indicator

This LED will become active once the included 5V DC power adapter is properly connected.

2 Video LED Indicator

This LED will be active while video is actively being transmitted between the sending and receiving units.

3 Link LED Indicator

This LED will become active once a solid link has been established between the sending and receiving units. If the distance between the units are too great and a link can not be established, shorten the distance between the units until the link indicator activates.

4 Component Video LED Indicator

This LED will become active when the component video input is selected and is transmitting video.

5 HDMI 1 LED Indicator

This LED will become active when the HDMI 1 input is selected and is transmitting video.

6 HDMI 2 LED Indicator

This LED will become active when the HDMI 2 input is selected and is transmitting video.

7 Auto LED Indicator

This LED will become active when the Gefen HDMI For Wireless Extender is using the Auto Selection feature. When this feature is active, the input will automatically be selected when it detects that an HDMI source's power has been turned on.

8 Input Selector Button

Each press of the input selector button will cycle through the available video inputs and the Auto Switching feature in the following order:

9 Transmitting Antenna

This antenna must be in line of sight with the receiving antennas for best possible performance. Do not disconnect or re-orient the position of this antenna. Doing so may cause unexpected operation and may produce a complete loss of signal.

10 5V DC Power Input

Connect the included 5V DC power supply to this input and the power outlet.

11 HDMI 1 Input

Connect a HDMI/DVI source to this input.

12 HDMI 2 Input

Connect a HDMI/DVI source to this input.

13 Component Video Input

Connect a component video source to this input.

14 Stereo Analog Audio Input

Connect the stereo analog audio source that will be used when the component source is selected. The audio from this port will also be used when a DVI display is detected by the receiving unit.

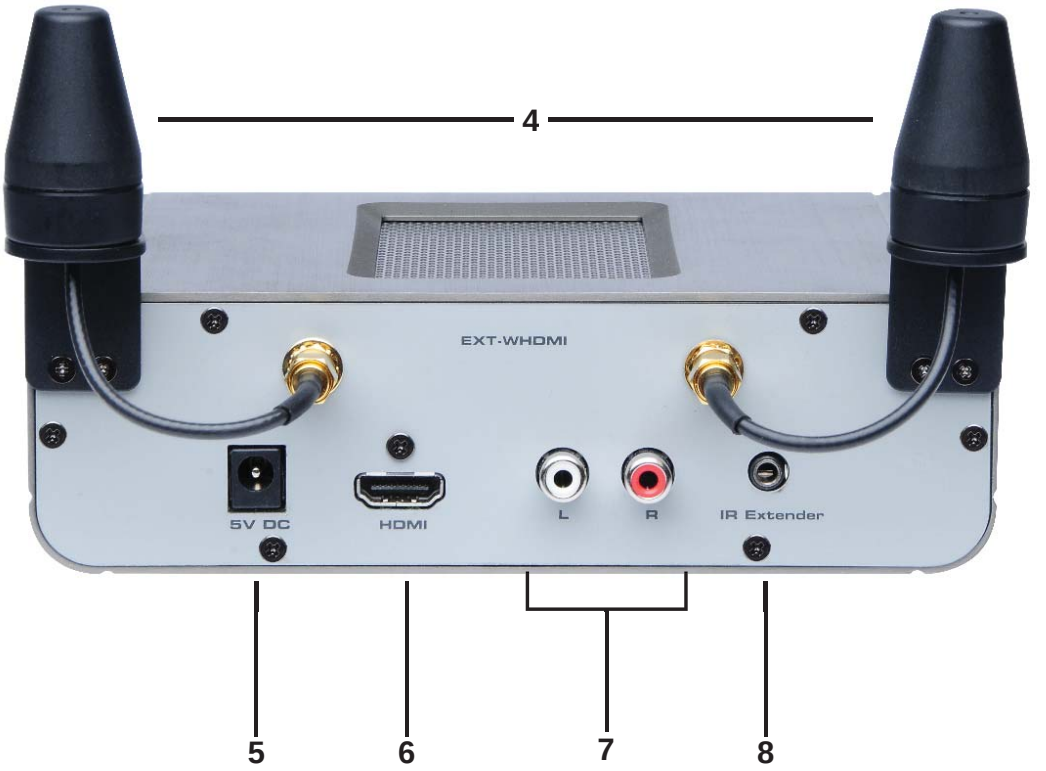
15 IR Emitter/Blaster Port

An optional IR emitter/blaster connects to this port to relay IR commands that are captured by the IR receiver on the Gefen Wireless for HDMI UWB receiving device. The IR emitter head connects to the IR receiver of a source device.

RECEIVER PANEL LAYOUT

Front Panel

Back Panel



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4 Receiving Antennas

These antennas must be in line of sight with the transmitting antenna for best possible performance. Do not disconnect or re-orient the position of these antennas. Doing so may cause unexpected operation and may produce a complete loss of signal.

5 5V DC Power Input

Connect the included 5V DC power supply to this input and the power outlet.

6 HDMI Output

Connect the viewing display to this output port. If the detected display is a DVI type, the analog audio inputs on the Gefen Wireless for HDMI UWB will be used for the audio input. The analog audio output ports will also be active on the receiving unit.

7 Stereo Analog Audio Output

The stereo analog audio output ports will always be active when the audio source is 2 channel audio. When multi-channel audio is used, these outputs will be disabled. This output will be active when a DVI type display is detected on the HDMI output port and will use audio from the analog stereo input jacks on the sender.

8 IR Receiver Extension Port

An optional IR receiver extension is connected to this port for use with the IR repeater feature. IR commands that are received through the IR receiver will be transmitted back to the source for output through attached IR blaster.

CONNECTING THE WIRELESS FOR HDMI UWB

How to Connect the Wireless for HDMI UWB

1. Connect the source devices to the Wireless for HDMI UWB sender inputs. Available inputs are as follows:

   HDMI 1 — Connect a HDMI/DVI (with a DVI to HDMI adapter) source device to the HDMI 1 input port using a user supplied HDMI cable.

   HDMI 2 — Connect a second HDMI/DVI (with a DVI to HDMI adapter) source device to the HDMI 2 input port using a user supplied HDMI cable.

   Component — Connect a component source device to the component input port using the supplied 5 RCA component/audio cable (Red, Green, and Blue).

2. Connect the analog audio for the component source, or if you are using a DVI source, to the analog audio input ports on the Wireless for HDMI UWB transmitting device using a user supplied 5 RCA component/audio cable (Red and White).

3. Connect the HDMI display to the Gefen Wireless for HDMI UWB receiving device HDMI output port using a user supplied HDMI cable. If using a DVI display use either a HDMI to DVI adapter or cable.

4. Connect the stereo analog audio output to the stereo analog audio inputs on either an external audio receiver or the display using a user supplied 2 RCA stereo analog audio cable.

5. If using the IR repeater feature, connect the optional IR blaster between the Gefen Wireless for HDMI UWB sender device and the source device's IR receiver. Connect the optional IR receiver extension to the Wireless for HDMI receiver. Place the IR receiver head in a location where it will be in line of sight with your IR remote control device(s).

6. Connect the included 5V DC power supplies to the Gefen Wireless for HDMI UWB sending and receiving devices.

7. Power on the display first and the source devices second.

NOTE: The Wireless for HDMI UWB will detect and link the sending and receiving units together and will require no further configuration to begin video and audio transmission.

Auto Switching Feature

The Auto Switching feature on the Wireless for HDMI will monitor both of the HDMI input ports and will automatically switch when it detects that an a HDMI source's power has been turned on. The memory feature will automatically return to the last viewed source when the unit detects that an HDMI source has been turned off. To access the component source, simply turn off the power to both of the HDMI sources and the component source will automatically be selected. To activate this feature, press the Input Selector button on the front panel of the sender unit until the AUTO LED becomes active. To deactivate this feature, simply use the Input Selector button to cycle to the next input.

Manual Switching

Manual switching can be accomplished by pressing the Input Selector button located on the front panel of the Wireless for HDMI UWB sending unit. Each press of this button will cycle through the available inputs. The cycling function operates in the order below:

SPECIFICATIONS

Frequency band range ..... 3.1 - 4.8 GHz

Resolutions ..... 480i, 480p, 720p, 1080i and 1080p@24Hz, 25Hz, and 30Hz

HDMI Version ..... HDMI v1.2a Compliant

CEC Compliancy ..... Consumer Electronics Control (CEC) compliant

Compression Type ..... ADI JPEG 2000 visual lossless compression

Operating temperature ..... 0 to 70 degrees C

Operating humidity ..... 10% to 90% relative humidity, non-condensing

Power Supply / Consumption ..... 5V DC / 12.5W max.

FCC Compliant ..... FCC Compliant Part 15

Dimensions ..... 6”W x 2”H x 4”D

Shipping Weight ..... 6 lbs.

WARRANTY

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.

2. Customers outside the US are responsible for shipping charges to and from Gefen.

3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at www.gefen.com.

PRODUCT REGISTRATION

Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.

Rev A4

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www.gefen.com support@gefen.com

This product uses UL listed power supplies.